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Attorney Docket No.: 021245-001410US

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

On

September 10, 2004

TOWNSEND and TOWNSEND and CREW LLP

By:

Mark T. Davis
Mark T. Davis

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

James Gardner

Application No.: 10/820,440

Filed: April 5, 2004

For: MODIFIED PREAMBLE
STRUCTURE FOR IEEE 802.11A
EXTENSIONS TO ALLOW FOR
COEXISTENCE AND
INTEROPERABILITY BETWEEN
802.11A DEVICES AND HIGHER
DATA RATE, MIMO OR OTHERWISE
EXTENDED DEVICES

Examiner: Not Yet Assigned

Art Unit: 2153

INFORMATION DISCLOSURE
STATEMENT UNDER 37 CFR §1.97 and
§1.98

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P.O. Box 1450
Alexandria, VA 22313-1450

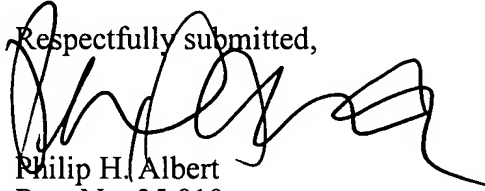
Sir:

The references cited on attached form PTO/SB/08B are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



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60302202 v1



Substitute for form 1449 PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete if Known		
			Application Number	10/820,440	
			Filing Date	April 5, 2004	
			First Named Inventor	Gardner, James	
			Art Unit	2153	
			Examiner Name	Not Yet Assigned	
Sheet	3	of		Attorney Docket Number	021245-001410US

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	AA	BANGERTER, Boyd et al.; "High-Throughput Wireless LAN Air Interface"; 2003, <u>Intel Technology Journal</u> , Vol. 7, No. 3, pp. 47-57.	
	AB	BOER, Jan et al.; "Backwards compatibility: How to make a MIMO-OFDM system backwards compatible and coexistence with 11a/g at the link level"; 2003, <u>IEEE 802.11-03/714r0</u> , slides 1-26.	
	AC	LARSSON, Erik G. et al.; "Preamble Design for Multiple-Antenna OFDM-Based WLANs With Null Subcarriers"; 2001, <u>IEEE Signal Processing Letters</u> , 8:11: 285-288.	
	AD	LI, Ye G. et al.; "Channel Estimation for OFDM Systems with Transmitter Diversity in Mobile Wireless Channels"; 1999, <u>IEEE J. Select Areas Commun.</u> , 17: 461-471.	
	AE	NEGI, Rohit et al.; "Pilot Tone Selection for Channel Estimation in a Mobile OFDM System"; 1998, <u>IEEE Trans. Consumer Electron.</u> , 44: 1122-1128.	
	AF	TUNG, Tai-Lai et al.; "Channel Estimation and Adaptive Power Allocation for Performance and Capacity Improvement of Multiple-Antenna OFDM Systems"; 2001, <u>Proc. IEEE Signal Processing Workshop on Signal Processing Advances in Wireless Comm.</u> 82-85.	
	AG	VAN NEE, Richard et al.; "New High-Rate Wireless LAN Standards"; 1999, <u>IEEE Commun.</u> 37: 82-88.	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.